



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Application Number</b>	<b>10/584981</b>
				<b>Filing Date</b>	<b>Dec. 31, 2004</b>
				<b>First Named Inventor</b>	<b>Keyvan Behnam</b>
				<b>Art Unit</b>	<b>1651</b>
				<b>Examiner Name</b>	<b>Ford, Allison</b>
<b>Sheet</b>	<b>1</b>	<b>of</b>	<b>13</b>	<b>Attorney Docket Number</b>	<b>187124/US/3</b>

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*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US 2002/0058947	05-16-2002	Hochschuler et al.	
		US 2002/0068974	06-02-2002	Kuslich et al.	
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		US 2009/0155378	06-18-2009	Behnam et al.	
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		US 4,172,128	10-23-1979	Thiele et al.	
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		US 4,472,840	09-25-1984	Jefferies	
		US 4,563,350	01-07-1986	Nathan et al.	
		US- 4,619,989	10-28-1986	Urist	
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First Named Inventor

Keyvan Behnam

Art Unit

1651

Examiner Name

Ford, Allison

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		US 6,595,998	07-22-2003	Johnson et al.	

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		US 6,911,212	06-28-2005	Gertzman et al.	
		US- 6,953,594	10-11-2005	Lee et al.	
		US 6,969,404	11-20-2005	Ferree	
		US 6,989,029	01-24-2006	Bonutti	
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		US 7,019,192	03-28-2006	Gertzman et al.	
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		US 7,045,141	05-16-2006	Merboth et al.	
		US 7,060,287	06-13-2006	Hubbard et al.	
		US 7,108,832	09-19-2006	Christensen et al.	
		US 7,179,299	02-20-2007	Edwards et al.	
		US 7,208,015	04-24-2007	Pointillart et al.	
		US 7,220,282	05-22-2007	Kuslich	

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		US 7,226,481	06-05-2007	Kuslich	
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		US RE 38,522	05-25-2004	Gertzman et al.	

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		Country Code:	Number - Kind Code (if known)				YES	NO
		DE	693 24 117 T2	06-29-1994	Jacques Fages et al.		<input type="checkbox"/>	<input type="checkbox"/>
		EP	0 082 621	06-29-1983	Collagen Corp.		<input type="checkbox"/>	<input type="checkbox"/>
		EP	0 148 155	04-19-1989	International Genetic Engineering, Inc.		<input type="checkbox"/>	<input type="checkbox"/>
		EP	0 212 474	03-04-1987	University of California		<input type="checkbox"/>	<input type="checkbox"/>
		EP	0 309 241	03-29-1989	Collagen Corp.		<input type="checkbox"/>	<input type="checkbox"/>
		EP	0 603 920 A1	06-29-1994	Bioland		<input type="checkbox"/>	<input type="checkbox"/>
		WO	1988/000205	01-14-1988	Genetics Institute, Inc.		<input type="checkbox"/>	<input type="checkbox"/>
		WO	1988/001517	03-10-1988	Materials Consultants		<input type="checkbox"/>	<input type="checkbox"/>
		WO	1990/003733	04-19-1990	International Genetic Engineering, Inc.		<input type="checkbox"/>	<input type="checkbox"/>
		WO	1995/031948	11-30-1995	Kuslich		<input type="checkbox"/>	<input type="checkbox"/>
		WO	1996/039170	12-12-1996	Genetics Institute, Inc.		<input type="checkbox"/>	<input type="checkbox"/>
		WO	2000/013615	03-16-2000	Lanka Limited		<input type="checkbox"/>	<input type="checkbox"/>

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		Country Code:	Number - Kind Code (if known)				YES	NO
		WO	2000/045870	08-10-2000	SDGI Holdings, Inc.		<input type="checkbox"/>	<input type="checkbox"/>
		WO	2000/047736	08-17-2000	Osteogenetics, GmbH		<input type="checkbox"/>	<input type="checkbox"/>
		WO	2004/073563 A	09-02-2004	Depuy Spine Inc. et al.		<input type="checkbox"/>	<input type="checkbox"/>
		WO	2006/076712	07-20-2006	Osteotech, Inc.		<input type="checkbox"/>	<input type="checkbox"/>
		WO	2007/053850	05-10-2007	Osteotech, Inc.		<input type="checkbox"/>	<input type="checkbox"/>
		WO	2007/133451	11-22-2007	Osiris Therapeutics, Inc.		<input type="checkbox"/>	<input type="checkbox"/>

### OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

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			YES	NO
		Aspenberg et al., "Monkey Bone Matrix Induces Bone Formation in the Athymic Rat, but Not in Adult Monkeys," <i>J. of Orthop. Res.</i> 9:20-25 (1991).		
		Aspenberg P. et al., "Bone morphogenetic protein induces bone in the squirrel monkey, but bone matrix does not", <i>Acta Orthop Scand.</i> 63(6): 619-22 (December 1992).		
		Blumenthal et al. "The use of collagen membrane barriers in conjunction with combined demineralized bone-collagen gel implants in human infrabony defects," <i>J. Periodontal</i> 61(6): 319-327 (June 1990).		
		Bolander et al., "The Use of Demineralized Bone Matrix in the Repair of Segmental Defects", <i>The Journal of Bone and Joint Surgery</i> , 68-A (8): 1264-1273.		
		Bravo, D.A. et al., "Accurate and Efficient Cleavage of the Human Insulin Proreceptor by the Human Proprotein-Processing Protease Furin," <i>Journal Biol Chem.</i> 269: 25830-25873 (1994).		
		Cameron, A. et al., "Polyarginines are potent inhibitors," <i>J. Biol. Chem.</i> 275: 36741-36749 (2000).		
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			YES	NO
		Caplanis et al., "Effect of allogenic freeze-dried demineralized bone matrix on guided tissue regeneration in dogs," <i>J. Periodontol.</i> , 851-856 (August 1998).		
		Constantino, et al. "Bone Healing and Bone Substitutes," <i>Facial Plastic Surgery</i> 18(1): pp. 14-26 (2002).		
		Deatherage et al., "Packaging and Delivery of Bone Induction Factors in a Collagenous Implant," <i>Collagen Rel. Res.</i> 7:225-231 (1987).		
		Elliott, J.C., "Structure and Chemistry of the Apatites and Other Calcium Orthophosphates", Elsevier Science B.V., Amsterdam (1994).		
		Enlow, Donald H., "Principles of Bone Remodeling: An Account of Post-natal Growth and remodeling Processes in Long Bones and the Mandible," Charles C. Thomas, Springfield, Ill., (1963).		
		Farley et al., "Human Skeletal Growth Factor: Characterization of the Mitogenic Effect on Bone Cells in Vitro," <i>Biochem</i> , 21:3508-3513 (1982).		
		Flemmig, et al. "Long-Term Maintenance of Alveolar Bone Gain After Implantation of Autolyzed, Antigen-Extracted, Allogenic Bone in Periodontal Intraosseous Defects," <i>J. Periodontol.</i> , 69(1): 47-53 (Jan. 1998).		
		Fujishiro, et al. "Histological evaluation of an impacted bone graft substitute composed of a combination of mineralized and demineralized allograft in a sheep vertebral bone defect," <i>Journal of Biomedical Materials Research Part A</i> , 538-544 (Aug. 4, 2006)		
		Gamradt, et al. "Bone Graft for Revision Hip Arthroplasty", <i>Clin. Ortho. and Related Research</i> , 417: 183-194 (2003).		
		Gepstein et al. "Bridging Large Defects in Bone by Demineralized Bone Matrix in the Form of a Powder," <i>The Journal of Bone and Joint Surgery</i> , 69A(7): 984-991 (1987).		
		Glowacki, "Cellular Reactions to Bone-Derived Material," <i>Clin. Ortho. and Related Research</i> , 324: 47-54 (1996).		
		Han, C. et al. "Autolysed Antigen-Extracted Allogeneic Bone for Repair of Diaphyseal Bone Defects in Rabbits," <i>Yonsei Medical Journal</i> , 31(3): 251-257 (1990).		
		Hollinger, et al. "A comparison of four particulate bone derivatives," <i>Clin. Ortho. and Related Research</i> , 267: 255-263 (June 1991).		
		Hunziker et al., "Repair of Partial Thickness Defects in Articulate Cartilage: Cell Recruitment From the Synovial Membrane", <i>Journal Bone Joint Surg.</i> , 78-A: 721-733 (1996).		
		Iwata et al. "Chemosterilized Autolyzed Antigen-Extracted Allogeneic (AAA) Bone Matrix Gelatin for Repair of Defects from Excision of Benign Bone Tumors," <i>Clin. Ortho and Related Research</i> , 154: 150-155 (1981).		

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			YES	NO
		Janovec, et al. "Autolyzed Antigen-Extracted Allogeneic Bone for Bridging Segmented Diaphyseal Bone Defects in Rabbits," <i>Clin. Ortho. and Related Research</i> , 229: 249-256 (April 1988).		
		Jean et al., "Alpha 1-Antitrypsin Portland, a bioengineered serpin highly selective for furin: Application as an antipathogenic agent", <i>Proc. Natl. Acad. Sci., USA</i> 95: 7293-7298 (1998).		
		Johnson et al. "Human Bone Morphogenetic Protein Allografting for Reconstruction of Femoral Nonunion," <i>Clin. Ortho. and Related Research</i> , 371: 61-74 (2000).		
		Johnson et al. "Preliminary explorations of reconstructive surgery with implants of autolyzed antigen-extracted allogeneic (AAA) bone supercharged with bone morphogenetic protein (BMP)," <i>Bone Grafts, Derivatives and Substitutes</i> , published by Butterworth-Heinemann, Oxford, pp. 363-376 (1994).		
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		Lewandrowski et al. "Kinetics of cortical bone demineralization: Controlled demineralization - a new method for modifying cortical bone allografts", <i>Journal of Biomedical Materials Research</i> , Vol. 31: 365-372 (1996).		
		Lewandrowski et al. "Mechanical Properties of Perforated and Partially Demineralized Bone Grafts," <i>Clin. Ortho. and Related Research</i> , 353: 238-246 (1998).		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Filing Date	Dec. 31, 2004
				First Named Inventor	Keyvan Behnam
				Art Unit	1651
				Examiner Name	Ford, Allison
Sheet	10	of	13	Attorney Docket Number	187124/US/3

### OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

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			YES	NO
		Lewandrowski et al., "An Electron Microscopic Study on the Process of Acid Demineralization of Cortical Bone," <i>Calcified Tissue Int.</i> 61:294-297 (1997).		
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						YES	NO
		Ripamonti et al. "The induction of bone in osteogenic composites of bone matrix and porous hydroxyapatite replicas: Experimental study on the baboon," <i>Oral Maxillofac. Surg.</i> 9: 817-830 (1991).					
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			YES	NO
		Serini et al., "Class 3 semaphorins control vascular morphogenesis by inhibiting integrin function," <i>Nature</i> , 424:391-397 (July 2003).		
		Smith, Michael et al. "March's Advanced Organic Chemistry", 5 <sup>th</sup> edition, John Wiley and Sons, New York, NY (March 2001).		
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		Urist et al. "Intertransverse Process Fusion with the Aid of Chemosterilized Autolyzed Antigen-Extracted Allogeneic (AAA) Bone," <i>Clin. Ortho. and Related Research</i> , 154: 97-113 (1981).		
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					YES
					NO
		Wang et al., "Purification and characterization of other distinct bone-inducing factors," <i>Proc. Nat. Acad. Sci.</i> 85:9484-9488 (1988).			
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